





USB to Serial Industrial



USB to Serial **Desktop**



Ethernet to Serial



PCI Express



ExpressCard



uPCI



Bluetooth



PCMCIA



Signed drivers for all ranges

Connect, Configure, Control Your Serial Devices



Connect, Configure, Control Your Serial Devices

- Established in 1984
- Specialists in serial connectivity solutions
- In-house design
- In-house manufacturing
- Custom design capability
- Lifetime Warranty & Support
- Fit & Forget solutions











USB to Serial Devices

Network Devices

IndustrialUSB to Serial

Desktop USB to Serial

Ethernet to Serial

Bluetooth to Serial

USB is a widely accepted user interface standard. Our industrial devices are stylish enough for the desktop and rugged enough for industry with functionality and performance for even the most demanding applications. Our software has been proven in a wide range of industrial applications and has passed where competitors failed.

Being hot swappable these plug & play devices makes USB a very attractive way to add serial connectivity to your PC and ideal for notebooks and laptops that only have USB connectivity options.

Instantly adding extra serial ports when required!

Ethernet to Serial device servers provides connectivity to serial devices via the network. Allowing control and monitoring of connected devices remotely and over the web.

Boost.Lan drivers for Windows users creating local COM ports, Web configuration and RFC2217 compliant interface for non-Windows users.

Brainboxes Class 2 RS232
Bluetooth converters are simple and easy to use and can be up and running within minutes. With 3-wire operation, integral antenna, and the option to configure as a pair for true cable replacement, these devices are an engineers dream.









Range Features

- . Includes 1m USB cable
- High retention USB connector for secure connections
- Max baud rate: 921,600
- Plug & Play
- . Fit any USB port
- Fantastic, proven, robust Boost software for excellent application compatibility
- Rugged metal enclosure
- . Accessories available

HOD TO OFFILM

Range Features

- Includes 0.25m USB cable (Type A plug to Type A Recepticle)
- Max Baud rate: 921,600
- Plug & Play
- Powered by USB port no external power supply required
- Fantastic, proven, robust Boost software for excellent application compatibility
- Fit any USB port
- Best in class form factor & software

Range Features

- . Max Baud rate 230,400
- . 10/100Base TX Ethernet port
- User friendly software
- . Power input 5-30V DC
- Web-page configuration and RFC2217-compliant interface for non-Windows users
- LED status indication
- Rugged metal enclosure with integrated wall mount
- . Optional DIN rail mounting kit

Range Features

- Requires no software
- Plug directly onto RS232 port for instant connection
- Intuitive configuration utility supplied for Windows & Linux
- Retain settings when powered down
- These devices can be powered from pin 9 of the peripheral
- Available as PC and device connectivity

USB 10 SERIAL		
Industrial USB Devices	PORTS	CODE
USB TO SERIAL 1 PORT RS232 1MBaud	1 x 9 pin	US-246
USB TO SERIAL 2 PORT RS232 1MBaud	2 x 9 pin	US-257
USB TO SERIAL 4 PORT RS232 1MBaud	4 x 9 pin	US-701
USB TO SERIAL 8 PORT RS232 1MBaud	8 x 9 pin	US-279
USB TO SERIAL 1 PORT RS422/485 1MBaud	1 x 9 pin	US-320
USB TO SERIAL 2 PORT RS422/485 1MBaud	2 x 9 pin	US-313
USB TO SERIAL 4 PORT RS422/485 1MBaud	4 x 9 pin	US-346
USB TO SERIAL 8 PORT RS422/485 1MBaud	8 x 9 pin	US-842
Desktop & Laboratory USB Devices		
USB TO SERIAL 1 PORT RS232	1 x 9 pin	US-101
USB TO SERIAL 1 PORT RS422/485	1 x 9 pin	US-324
USB TO SERIAL 1 PORT RS232	<u>'</u>	

NETWORK DEVICES		
Ethernet to Serial Devices	PORTS	CODE
ETHERNET 1 PORT RS232	1 x 9 pin	ES-246
ETHERNET 1 PORT RS422/485	1 x 9 pin	ES-320
ETHERNET 1 PORT RS232 & 1 PORT RS422/485	2 (1 terminal block)	ES-357
ETHERNET 2 PORT RS232	2 x 9 pin	ES-257
ETHERNET 2 PORT RS422/485	2 x 9 pin	ES-313
Bluetooth Devices	CLASS	CODE
RS232 BLUETOOTH CONVERTER DTE (Male-device end)	10m (30ft)	BL-819
RS232 BLUETOOTH CONVERTER DTE (Female-PC end)	10m (30ft)	BL-830

Desktop & Server

PCI Express RS232

PCI Express RS422/485

uPCI RS232 & Powered RS232

uPCI Opto Isolated & RS422/485

PCI Express is the next generation of connectivity standard within PCs and servers. It is based on the current PCI bus, but is faster and requires less power. PCI Express (PCIe) slots are already replacing PCI slots within PCs and servers.

Brainboxes PX products ensure a smooth transition for customers from PCI to PCIe.

Our universal PCI cards are compatible with both 5V and 3.3V slots.

Brainboxes manufacture an extensive range of PCI cards with 1 to 8 ports, RS232 or RS422/485, low profile or standard height, and with or without cables. PCI cards are plug & play, fit internally to the PC and give the most secure add on solution for permanent installations.









Range Features

- Maximum baud rate: 921,600 with true 1Mbit line drivers
- FIFO buffer per port: 256 byte (1-4 ports), 32byte (8 ports)

- CE/FCC Compliant
- Plug & Play auto configuring of interrupt and address

Range Features

- Maximum baud rate: 921,600 with true 1Mbit line drivers
- FIFO buffer per port: 256 byte (1-4 ports), 32 byte (8 ports)
- CE/FCC Compliant
- Plug & Play auto configuring of interrupt and address

RS422/485 Specific:

- . Configurable as full or half duplex
- Hardware autogating for guaranteed no data loss in half duplex cabling systems

Range Features

- Universal PCI (3.3V & 5V)
- Maximum baud rate: 115,200
- FIFO buffer per port: 128 byte (1 & 2 ports), 64byte (4 ports)
- CE/FCC Compliant
- Plug & Play auto configuring of interrupt and address

Range Features

- Configurable as full or half duplex
- Hardware autogating guaranteed no data loss in half duplex cabling systems
- Transient spike protection
- Terminating resistors for fail-safe open/short circuit protection
- Opto-isolation ±1500V DC/1000V AC

Į	DESKTOP & SERVER CARDS			
	PCIe RS232 Cards	PORTS	STD CODE	LP CODE
NI	PCIe 1xLPT	1 x LPT	PX-146	PX-157
N	PCle 1xLPT + 1xRS232 1MBaud	1 x 9 pin	PX-475	
	PCIe 1xRS232 1MBaud	1 x 9 pin	PX-246	PX-235
	PCIe 2xRS232 1MBaud	2 x 9 pin	PX-257	PX-101
	PCIe 2xRS232 + 1xLPT 1MBaud	2 x 9 pin		PX-203
	PCIe 3xRS232 1MBaud	3 x 9 pin	PX-431	
	PCIe 3+1xRS232 1MBaud	4 x 9 pin	PX-420	
	PCIe 4xRS232 1MBaud	4 x 9 pin	PX-701	PX-260
	PCIe 8xRS232 1MBaud	8 x 9 pin	PX-279	
	PCIe 8xRS232 DB25 1MBaud	8 x 25 pin	PX-275	
Ī				
Ī	PCIe RS422/485 Cards			
Ī	PCIe 1xRS422/485 1MBaud	1 x 9 pin	PX-324	PX-320
NI	PCle 1xRS422/485 Opto Isolated 1MBaud	1 x 9 pin	PX-387	PX-376
	PCIe 2xRS422/485 1MBaud	2 x 9 pin	PX-313	
N	PCIe 2xRS422/485 Opto Isolated 1MBaud	2 x 9 pin	PX-310	
	PCIe 4xRS422/485 1MBaud	4 x 9 pin	PX-346	PX-335
N	PCIe 4xRS422/485 Opto Isolated 1MBaud	4 x 9 pin	PX-368	

DESKTOP & SERVER CARDS PCI RS232 CARDS	PORTS	STD CODE	LP CODE
uPCI 1xLPT		UC-146	UC-157
uPCL1xLPT + 1xRS232	1 x LPT	UC-146 UC-475	
	1 x 9 pin		UC-464
uPCI 1xRS232	1 x 9 pin	UC-246	UC-235
uPCI 2xRS232	2 x 9 pin	UC-257	UC-101/253
uPCI 2xRS232 1MBaud	2 x 9 pin	UC-302	
uPCI 2xRS232 230K	2 x 9 pin	UC-607	
uPCI 2xRS232 + 1xLPT	2 x 9 pin		UC-203
uPCI 3xRS232	3 x 9 pin	UC-431	
uPCI 3+1xRS232	4 x 9 pin	UC-420	
uPCI 4xRS232	4 x 9 pin	UC-268	UC-260
uPCI 4xRS232 DB25	4 x 25 pin	UC-265	UC-271
uPCI 8xRS232	8 x 9 pin	UC-279	
uPCI 8xRS232 DB25	8 x 25 pin	UC-275	
uPCI 4xRS232	4 x 9 pin	UC-701	
uPCI 4xRS232 DB25	4 x 25 pin	UC-756	
Powered PCI RS232			
uPCI 2xRS232 POS 0.5A	2 x 9 pin	UP-869	
uPCI 2xRS232 POS 1.A	2 x 9 pin	UP-880	
PCI RS422/485 Cards			
uPCI 1xRS422/485 1MBaud	1 x 9 pin	UC-324	UC-320
uPCI 1xRS232 + 1xRS422/485	2 x 9 pin	UC-357	
uPCI 2xRS422/485 1MBaud	2 x 9 pin	UC-313	
uPCI 2xRS422/485 1MBaud Opto Isolated	2 x 9 pin	UC-310	
uPCI 4xRS422/485 1MBaud	4 x 9 pin	UC-346	
uPCI 4xRS422/485 1MBaud Opto Isolated	4 x 9 pin	UC-368	
uPCI 2xRS422/485 18MBaud	2 x 9 pin	CC-525	
uPCI 2xRS422/485 15MBaud	2 x 9 pin	CC-530	

Laptop

Accessories

ExpressCard

ExpressCard slots are replacing PCMCIA slots in laptops. All new laptops only have ExpressCard slots. These RS232 & RS422/485 products are hot swappable, allowing the PC to stay active when expansion options are added or removed, ensuring minimum impact to the user.

PCMCIA

Brainboxes PCMCIA cards are designed to take full advantage of improved mobile processing power. These products are based on Brainboxes' high performance custom chip. Ensuring all the features of PCI cards. Allows you to use your laptop as a true desktop replacement.

Cables

Lost your cable or need a spare?

All of our cables are fully moulded, UL approved and are RoHS compliant, ensuring reliable connectivity for all your application needs.

DIN Rail Kits & Adapters

DIN Rail Kits are available for our USB to Serial and Ethernet to Serial ranges.

Adaptors are a simple cost effective solution to using our ExpressCard in older Laptops that only have PCMCIA slots (PM-200) and ensuring a perfect fit in newer Laptops that have either 34 or 54 ExpressCard slots (VX-056)

Power **Supplies**

Our Power Supplies are available in several continent variations to ensure a perfect solution for your application.

All of our Power Supplies are UL approved and are RoHS compliant, ensuring reliable connectivity for all your application needs.





Range Features

- Maximum baud rate: 921,600 with true 1Mbit line drivers
- FIFO buffer per port:128 byte
- **CE/FCC** Compliant
- Plug & Play auto configuring of interrupt and address Use in tablet, desktop & laptop
- RS422/485 Specific:
- Configurable as full or half duplex Hardware autogating for guaranteed no data loss in half duplex cabling systems

Range Features

- Maximum baud rate: 921,600 with true 1Mbit line drivers
- FIFO buffer per port:128 byte
- CE/FCC approved
- Plug & Play auto configuring of interrupt and address
- Use in tablet, desktop, laptop, and Pocket PCs
- Option of secured or removable cables
- Type II PCMCIA
- RS422/485 features (see ExpressCard)









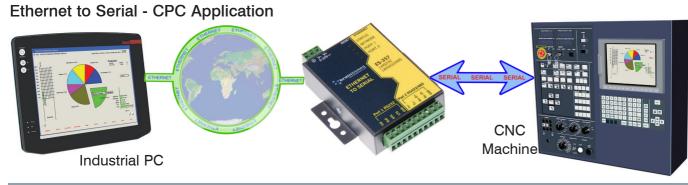
LAPTOP CARDS		
EXPRESSCARD SERIAL	PORTS	CODE
EXPRESSCARD 1 PORT RS232	1 x 9 pin	VX-001
EXPRESSCARD 2 PORT RS232	2 x 9 pin	VX-012
EXPRESSCARD 1 PORT RS422/485	1 x 9 pin	VX-023
EXPRESSCARD 2 PORT RS422/485	2 x 9 pin	VX-034
PCMCIA TO EXPRESSCARD ADAPTOR	n/a	PM-200
EXPRESSCARD 54mm SPACER	n/a	VX-056
PCMCIA - Removable Cables		
PCMCIA 1 PORT RS232	1 x 9 pin	PM-020
PCMCIA 2 PORT RS232	2 x 9 pin	PM-010
PCMCIA 1 PORT RS422/485	1 x 9 pin	PM-120
PCMCIA 2 PORT RS422/485	2 x 9 pin	PM-121
PCMCIA - Secured Cables		
PCMCIA 1 PORT RS232 RUGGED 1MBaud	1 x 9 pin	PM-143
PCMCIA 2 PORT RS232 RUGGED 1MBaud	2 x 9 pin	PM-132
PCMCIA 1 PORT RS422/485 RUGGED 1MBaud	1 x 9 pin	PM-154

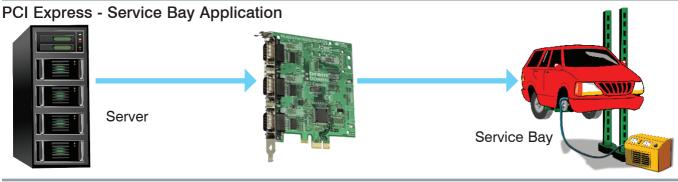
ACCESSORIES		
Cables	PORTS	CODE
STD.9PIN Serial Adapter Cable	1x9 pin	CC-027
LPT Adapter Cable	1xLPT	CC-032
Low Profile 9Pin Serial Adapter Cable	1x9 pin	CC-038
Quad Cable 4x9	4x9 pin	CC-060
Quad Cable 4x25	4x25 pin	CC-072
Lynx Cable 8x9	8x9 pin	CC-093
Lynx Cable 8x25	8x25 pin	CC-095
Dual Low Profile Cable 44 Way D to 2x9Pin	2x9 pin	CC-191
Quad Low Profile Cable 44 Way D to 4x9Pin	4x9 pin	CC-213
Quad Low Profile Cable 44 Way D to 4x25Pin	4x25 pin	CC-224
PCMCIA 9 Pin Cable	1x9 pin	PM-031
USB Type A plug to Type A receptacle 0.25m Cable		US-045
USB Type A plug to Type A receptacle 1m Cable		US-063

ACCESSORIES	
DIN Mounting Kits	CODE
DIN-Rail Mounting Kit for 1&2 Port ES/US	MK-048
Wall Mounting Kit for 4&8 Port ES/US	MK-059
Snap-In DIN Clip Kit for 4&8 Port ES/US	MK-070
Adaptors	CODE
PCMCIA to ExpressCard Adaptor	PM-200
ExpressCard 54mm Spacer	VX-056

ACCESSORIES	
Power Supplies	CODE
ES-357 Power Supply UK	PW-644
ES-357 Power Supply EU	PW-611
US-279 Power Supply UK	PW-544
US-279 Power Supply EU	PW-511
BL-819/830 Power Supply UK	PW-844
BL-819/830 Power Supply EU	PW-811

From product design to application - a fit and forget solution







ExpressCard - Train Data Receiver Application



USB to Serial - Security Camera Application













There's so much more to Brainboxes

To enjoy the full benefits of Brainboxes, contact

UK - Head Office

- t. +44 (0)151 220 2500 f. +44 (0)151 252 0446
- e. sales@brainboxes.com w. www.brainboxes.com

Brainboxes Ltd. Unit 3c Wavertree Boulevard South, Wavertree Technology Park, Liverpool, L7 9PF, UK

USA

TollFree +1 888 958 5538

Japan

t. +81-3-3833-2500

Brainboxes Japan. 1-2-8 Shinjyuku, Shinjyku-ku, Tokyo, 160-0022 Japan,

or visit www.brainboxes.com